

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

Claims 1-16 (canceled)

- |   |  |  |
|---|--|--|
| 1 | 17. (withdrawn)  | An enzyme bioreactor comprising a murine Fuc-TVII        |
| 2 | enzyme, a GDP-fucose donor substrate and a sialyl-N-acetyl-lactosamine acceptor substrate. |  |
| 1 | 18. (withdrawn)  | The enzyme bioreactor of claim 17, wherein the Fuc-TVII  |
| 2 | enzyme is in solution.   |  |
| 1 | 19. (withdrawn)  | The enzyme bioreactor of claim 17, wherein the Fuc-TVII  |
| 2 | enzyme is immobilized on a solid phase matrix.   |  |
| 1 | 20. (withdrawn)  | The enzyme bioreactor of claim 17, wherein the Fuc-TVII  |
| 2 | enzyme is a recombinant enzyme.  |  |
| 1 | 21. (withdrawn)  | The enzyme bioreactor of claim 20, wherein the Fuc-TVII  |
| 2 | enzyme is produced in a mammalian host cell.   |  |
| 1 | 22. (withdrawn)  | The enzyme bioreactor of claim 20, wherein the Fuc-TVII  |
| 2 | enzyme is produced in a baculovirus host.  |  |
| 1 | 23. (withdrawn)  | The enzyme bioreactor of claim 17, wherein the sialyl-N- |
| 2 | acetyl-lactosamine acceptor is on a glycoprotein.  |  |
| 1 | 24. (withdrawn)  | The enzyme bioreactor of claim 17, wherein the sialyl-N- |
| 2 | acetyl-lactosamine acceptor is on a glycolipid.  |  |
| 1 | 25. (withdrawn)  | The enzyme bioreactor of claim 17, wherein the sialyl-N- |
| 2 | acetyl-lactosamine acceptor is a free oligosaccharide.                                     |  |

1                   26. (withdrawn)       The enzyme bioreactor of claim 17, wherein the Fuc-TVII  
2 enzyme comprises a catalytic domain that is encoded by a nucleic acid segment amplified by a 5'  
3 primer as shown in SEQ ID NO:3 and a 3' primer as shown in SEQ ID NO:4.

1                   27. (withdrawn)       A method of preparing a sialyl Lewis x determinant, the  
2 method comprising contacting a murine Fuc-TVII enzyme with a GDP-fucose donor substrate  
3 and a sialyl-N-acetyl-lactosamine acceptor substrate in an enzyme bioreactor under conditions  
4 that allow the addition of an  $\alpha$ 1,3 linked fucose to the sialyl-N-acetyl-lactosamine acceptor  
5 substrate.

1                   28. (withdrawn)       The method of claim 27, wherein the Fuc-TVII enzyme is  
2 in solution.

1                   29. (withdrawn)       The method of claim 27, wherein the Fuc-TVII enzyme is  
2 immobilized on a solid phase matrix.

1                   30. (withdrawn)       The method of claim 27, wherein the Fuc-TVII enzyme is a  
2 recombinant enzyme.

1                   31. (withdrawn)       The method of claim 20, wherein the Fuc-TVII enzyme is  
2 produced in a mammalian host cell.

1                   32. (withdrawn)       The method of claim 20, wherein the Fuc-TVII enzyme is  
2 produced in a baculovirus host.

1                   33. (withdrawn)       The method of claim 27, wherein the sialyl-N-acetyl-  
2 lactosamine acceptor is on a glycoprotein.

1                   34. (withdrawn)       The method of claim 27, wherein the sialyl-N-acetyl-  
2 lactosamine acceptor is on a glycolipid.

1                    35. (withdrawn)        The method of claim 27, wherein the sialyl-N-acetyl-  
2    lactosamine acceptor is a free oligosaccharide.

1                    36. (withdrawn)        The method of claim 27, wherein the Fuc-TVII enzyme  
2    comprises a catalytic domain that is encoded by a nucleic acid segment amplified by a 5' primer  
3    as shown in SEQ ID NO:3 and a 3' primer as shown in SEQ ID NO:4.

1                    37. (as filed)    A murine Fuc-TVII enzyme comprising a catalytic domain that is  
2    encoded by a nucleic acid sequence segment amplified by a 5' primer as shown in SEQ ID NO:3  
3    and a 3' primer as shown in SEQ ID NO:4.

                    38. (as filed)    The murine Fuc-TVII enzyme of claim 37, wherein the catalytic  
domain is encoded by a nucleic acid segment consisting of residue 2194 to residue 3085 of SEQ  
ID NO: 1.